



**Third United Nations
International Conference
on the Peaceful Uses
of Atomic Energy**

A/CONF.28/A/481
CHINA

February 1964

Original: ENGLISH

Confidential until official release during Conference

Abstract

RESEARCH REACTOR

Cheng Chen-hwa
Director, Institute of Nuclear Sciences,
National Tsing Hua University

The nuclear research reactor of the Republic of China is planned and installed as part of the nation's efforts to promote its atomic energy programme. This programme has two principal aims: (1) the application of nuclear energy for peaceful purposes through the uses of radioisotopes and the training of scientists for the establishment of nuclear power stations; (2) the utilization of the research work in nuclear energy as a focus and stimulus to the national movement in upgrading science education and encouraging general research in science and technology.

The first nuclear reactor, a one-megawatt light-water, open-pool type, was installed at the Institute of Nuclear Science, National Tsing Hua University, at Hsin Chu, Taiwan, China.

The reactor went critical in April 1961. Its operation at Tsing Hua has given the University a twofold mission: to offer opportunities for study and research in nuclear science and to serve at the same time as a national laboratory and centre for the promotion of peaceful uses of atomic energy throughout the nation. Utilizing the reactor to accomplish these objectives, Tsing Hua has adopted the following steps: (1) offering a regular two-year M.S. degree programme in nuclear science and technology; (2) making the reactor available for research by other educational institutions and industries. Collaboration in research has also been worked out with other institutions; (3) production of short half-life radioisotopes for medical, industrial and agricultural uses. Already eight kinds of radioisotopes have been produced; (4) extending nuclear instrument maintenance and repairing service and health physics service to other institutions that are engaged in the atomic energy programme; (5) conducting training classes and symposiums on health physics,

A/CONF.28/A/481
page 2

application of radioisotopes, and nuclear instrument maintenance. Participants in these training classes include those from areas such as Hongkong, Vietnam. The above outline is an over-all plan of our atomic energy programme.